

SMITH - Serial No. 10/002,616

REMARKS

Upon entry of this Amendment, claims 1-18 and 20-35 will be pending of which claims 1, 3 and 20 are independent. The claims have been amended to eliminate multiple dependencies, to correct some clerical errors, and to employ more conventional US claim language.

Furthermore, claim 19 has been cancelled and new claims 21-35 have been added. New claims 21-35 correspond to claims 4-18, except that claims 21-35 are (directly or indirectly) dependent on claim 3 instead of on claim 1. No new matter has been introduced.

It is respectfully submitted that the present invention is in condition for allowance and a Notice to that effect is courteously solicited. If any questions remain, the Examiner is encouraged to call the undersigned to expedite the prosecution of this application.

Respectfully submitted,

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Enclosure: Appendix



VERSION WITH MARKINGS SHOWING CHANGES MADE

IN THE CLAIMS:

New claims 21-35 have been added.

Claim 19 has been cancelled.

Claims 4-15 and 17-18 have been amended as follows:

4. (Amended) The polyethylene according to [any one of] claim[s] 1[-3], wherein said polyethylene has a weight average molecular weight below 700,000 g/mol.
5. (Amended) The polyethylene according to [any one of] claim[s] 1[-3], wherein said polyethylene has a weight average molecular weight below 500,000 g/mol.
6. (Amended) The polyethylene according to [any one of] claim[s] 1[-5], wherein said polyethylene has a weight average molecular weight of at least 250,000 g/mol.
7. (Amended) The polyethylene of according to [any one of] claim[s] 1[-6], wherein said polyethylene has a co-monomer content of less than 10 mol%.
8. (Amended) The polyethylene according to [any one of] claim[s] 1[-7], wherein said polyethylene has a co-monomer content in the range of 0.5-5 wt%.
9. (Amended) The polyethylene according to [any one of] claim[s] 1[-8], wherein said polyethylene has a wear coefficient below $2.0 \cdot 10^{-4} \text{ mm}^3/\text{mN}$.
10. (Amended) The polyethylene according to [any one of] claim[s] 1[-9], wherein said polyethylene has a polydispersity below 5.
11. (Amended) The polyethylene according to [any one of] claim[s] 1[-9], wherein said polyethylene has a polydispersity in the range of 2-4.

12. (Amended) The polyethylene according to [any one of] claim[s] 1[-11], wherein said polyethylene has a melting point of at least 100° C.

13. (Amended) The polyethylene according to [any one of] claim[s] 1[-11], wherein said polyethylene has a melt viscosity of less than $5 \cdot 10^5$ Pa.s.

14. (Amended) The polyethylene according to [any one of] claim[s] 1[-13], wherein said polyethylene has a number average molecular weight of at least 100,000 g/mol.

15. (Amended) A process comprising melt-processing the polyethylene according to [any one of] claim[s] 1[-14].

17. (Amended) An article [obtainable] obtained by the process according to [any one of] claim[s] 15[-16].

18. (Amended) An article comprising the polyethylene according to [any one of] claim[s] 1[-14].